

Abstract of the Disclosure

An apparatus and method for making a polling list based on IEEE 802.11e standards are provided. The apparatus includes a coordinator polling list making apparatus, which generates a controlled contention frame, transmits the controlled contention frame to stations on a network through a channel using a broadcast method, and when a reservation request frame from each of the stations is received as a response to the controlled contention frame through the channel during a controlled contention interval designated by the controlled contention frame, allocates a poll frame transmission sequence to the stations, from which the reservation request frame is received, using a first come first serve method based on a sequence in which reservation request frames arrive and makes a polling list including the poll frame transmission sequence; and a station polling list making apparatus, which when the controlled contention frame is received through the channel from the coordinator polling list making apparatus, contends for use of the channel according to a user priority value of a data frame so as to acquire an exclusive right of using the channel, and when the exclusive right is acquired, generates a reservation request frame as a response to the controlled contention frame and transmits the reservation request frame to the coordinator polling list making apparatus through the channel.